



# **CL900 Tablet PC**

**Model FWS-001**

**User's Guide**

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The end user may access only one operating system language version.

L'utilisateur final ne peut accéder qu'à une seule version linguistique du système d'exploitation.

Der Endbenutzer darf nur auf eine Sprachversion des Betriebssystems zugreifen.

De eindgebruiker heeft slechts toegang tot één taalversie van het besturingssysteem.

L'utente finale può accedere a una sola lingua del sistema operativo.

El usuario final sólo podrá acceder a una versión de idioma del sistema operativo.

Loppukäyttäjä voi käyttää vain yhtä käyttöjärjestelmän kieliversiota.

Användaren har endast tillgång till en språkversion av operativsystemet.

Slutbruger har kun adgang til ét af operativsystemets sprogversioner.

Sluttbruker kan aksessere kun én av operativsystemets språkversjoner.

O utilizador final pode alcançar somente uma versão de língua do sistema de exploração.

O usuário final pode acessar apenas uma versão de idioma do sistema operacional.

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# Getting Started

# 1

The Motion Computing® CL900 Tablet PC is rugged, lightweight, powerfully equipped and purposefully designed, developed and built for mobile business. Enterprise-ready, the CL900 offers a blend of performance, integrated features and mobility. The lightweight CL900 helps users work faster and more effectively; it provides the capabilities, applications and ergonomic ease-of-use that mobile workers need to be more productive in today's decentralized work environments.

## Product specifications

This is a list of the main features of the CL900 tablet PC. See below for illustrations of the tablet's buttons, slots and ports.

- Intel® Atom™ processor Z670 (1.5 GHz)
- 1 or 2 GB 800MHz DDR2 memory\*
- 30 or 62 GB solid-state drive (SSD)\*
- Windows 7 Home Premium or Professional
- 10.1" touchscreen display (LED BL, 1376x768) with Corning® Gorilla® glass
- 802.11 Wi-Fi WLAN\*\*
- Qualcomm® Gobi™ WWAN mobile broadband with GPS receiver\*
- Bluetooth® 3.0
- Multi-touch input with touch and pen\*
- Mono speaker and dual array microphones for speech recognition
- Combined 3.5 audio input/output jack
- 3.0 MP rear documentation camera and 1.3 MP front web camera
- micro HDMI (video) port: HDMI 1.3a, HDCP 1.3 (Type D) 1080p @ 60Hz
- SDHC card slot, SIM card slot and dock connector
- Built-in lithium-Ion battery

\* Optional features are available when you purchase the CL900.

\*\* The 802.11 version, 802.11a, 802.11b, 802.11g or 802.11n, varies by region. Refer to the [Motion Computing](#) website to determine which version is available in your region.

**TIP:** You can view the details of your specific CL900 configuration. From the Windows Start menu, choose **All Programs > Accessories > System Tools > System Information**.

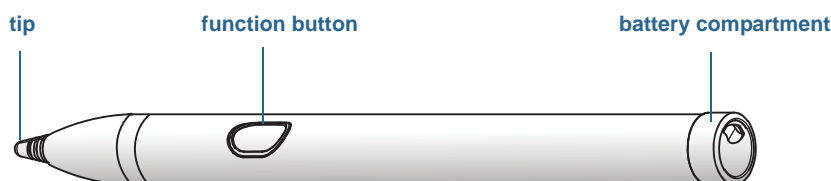
## Optional features

This section describes the optional features available with the purchase of the CL900.

### Pen

The optional pen is a useful alternative to your finger for interacting with the touchscreen display. You may find the pen handy when you want to write a quick email or take notes. The pen is particularly effective for more intricate manipulation that is more difficult with a finger, such as using graphic or word processing software.

The pen is a battery-powered electronic stylus with a pressure-sensitive tip and function button. When pressed, the function button displays a right-click context menu. The pen comes with a standard AAAA battery and pen tether.



You can purchase pens from the [Motion Computing Accessories](#) page.

For more information about using the pen, see “Using touch” on page 16.

### Mobile broadband with GPS

You can choose to purchase a CL900 Tablet PC with the optional Mobile Broadband with GPS module. When installed, the module provides:

- Worldwide mobile broadband (WWAN) support
- Worldwide global positioning (GPS) support

Motion Connection Manager is an application that you install to manage your mobile broadband and GPS network connections.

The GPS receiver uses satellites to determine the current location, altitude, heading and horizontal velocity of the CL900. You can use it with your preferred mapping application to find your current and desired locations. The GPS receiver can operate alone or simultaneously with the mobile broadband network connection. For information about setting up mobile broadband and installing the Connection Manager, see “Set up mobile broadband with GPS (WWAN)” on page 9. For information about using the GPS receiver, see Motion Connection Manager help.

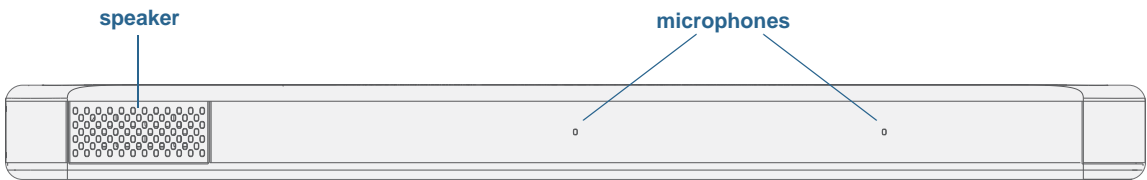
## Overview of the CL900

The following illustrations show the buttons, slots and ports on the CL900 tablet PC.

**NOTE:** Optional features are marked with an asterisk (\*). Customers choose these options at the time they purchase the CL900.

### Top view

The speaker and microphones are located on the top edge of the CL900.

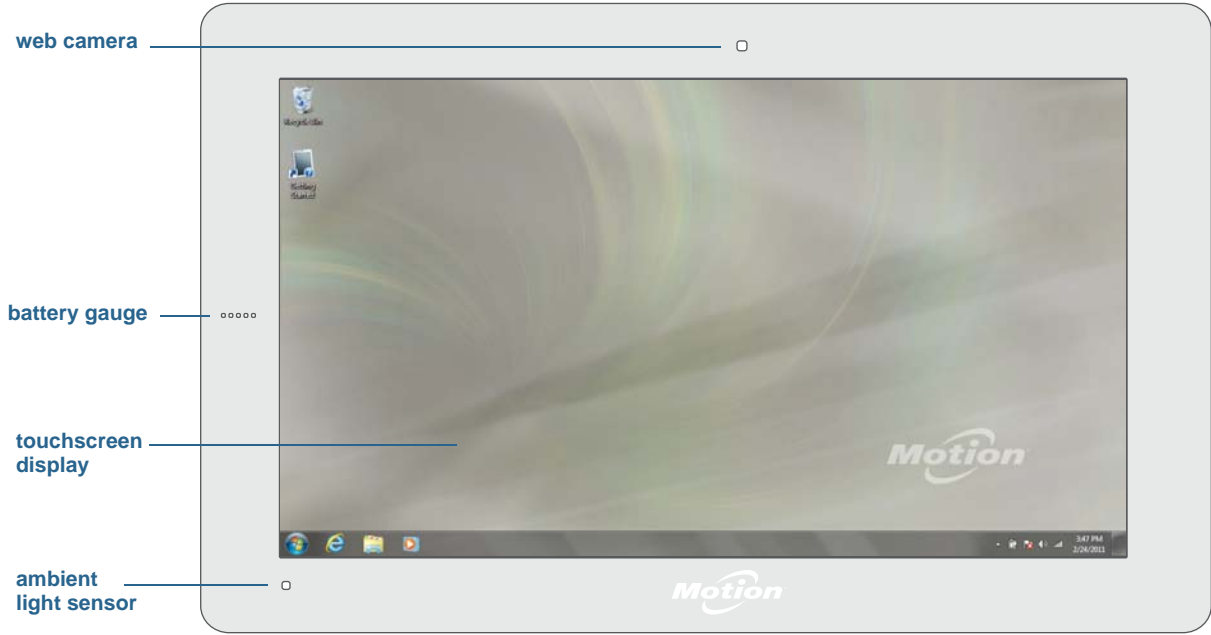


Speaker	Listen to audio warnings, videos, music and other multi-media applications.
Microphones	Use voice commands, record audio and dictate notes with the two liquid-resistant array microphones without the need for an external microphone. For more information about using voice, see “Using speech recognition” on page 29.

**NOTE:** In addition to the built-in speaker and microphones, you can plug external headsets in the audio in/out jack.

# Front view

The front of CL900 consists of the sleek, clean touchscreen display, a web camera and battery gauge.

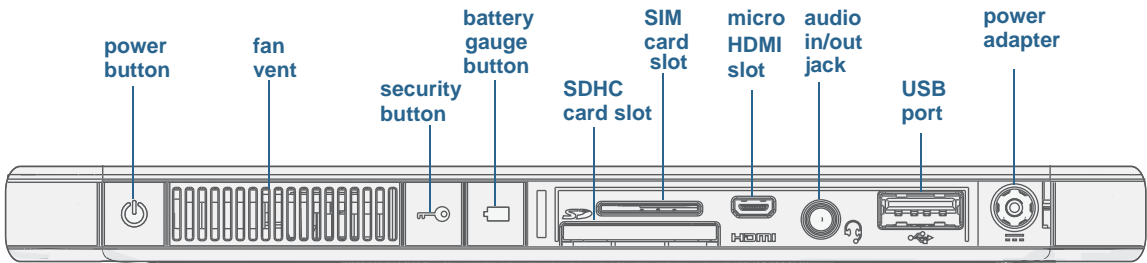










Web camera	Interact with people online, stream video or capture color images with a 1.3 MP web camera. See "Using the cameras" on page 22.
Battery gauge	Monitor battery status. When running on battery, LED lights on the front show the current level of battery charge. See "Checking battery power" on page 31.
Touchscreen display	Use your finger or pen to access all the functions of the CL900 on the 10.1" display.
Ambient light sensor	Measures background light and can automatically adjust the brightness of the display.



# Left side view

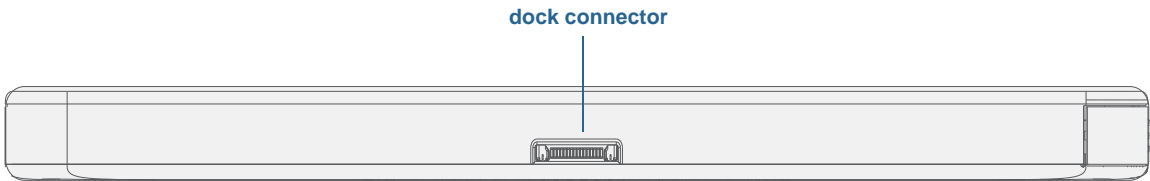
Most of the CL900 connectors and slots appear on the left side of the tablet. The ports are protected by a door which is not shown in the picture below.



	Power button	Press to turn on and to put the tablet PC to sleep. Press and hold to turn it off.
	Fan vent	Protects the fan assembly.
	Security button	Press to log on or lock the CL900. Equivalent to Ctrl+Alt+Delete on a keyboard.
	Battery gauge button	Check remaining battery power. Press the button to view LED lights on the front, the number of lights indicates the current level of battery charge. See “Checking battery power” on page 31.
	SDHC card slot	Secure Digital (SD) memory card slot.
	SIM card slot	For mobile broadband (WWAN). If required, your cellular network carrier provides the SIM card.
	Micro HDMI port	Connect digital audio/video devices such as an external digital monitor. The micro HDMI (Type D) supports up to 1080p @ 60Hz.
	Audio in/out jack	Connect a combined headphone/microphone or any other audio device compatible with a 3.5mm jack.
	USB 2.0 port	Connect a USB device such as a mouse, digital camera, printer or external storage device.
	Power adapter port	Connect the power adapter.

## Bottom view

A dock connector on the bottom edge of the tablet enables you to connect with a docking station.



Dock connector	Connect CL900 to a CL-Series docking station.
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## Right side view

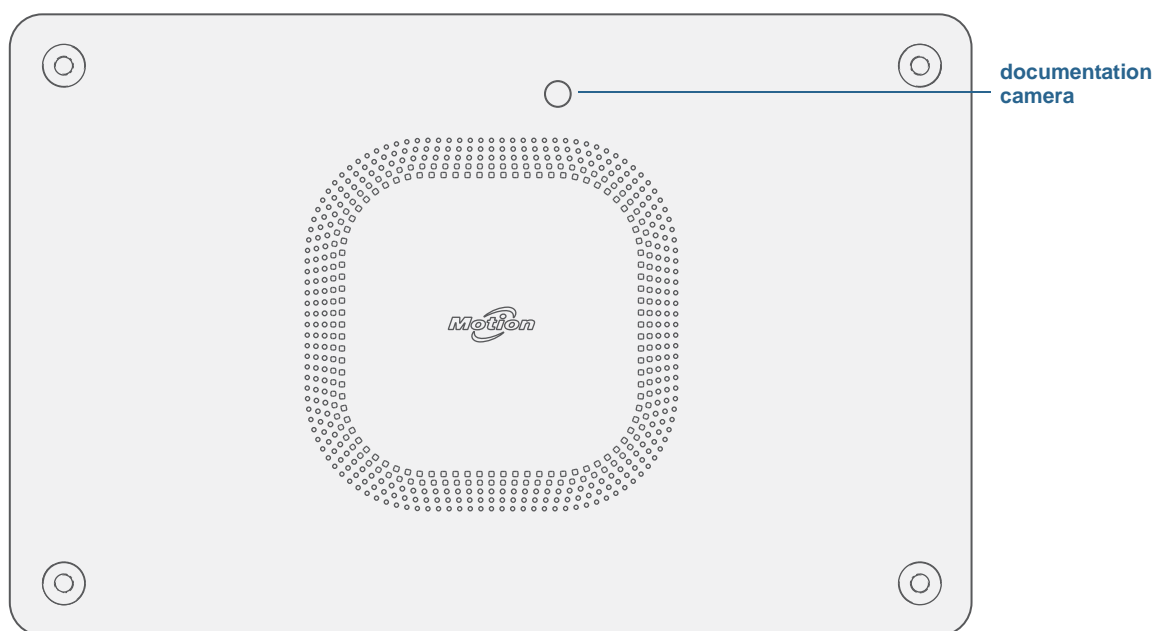
The pen is stored on the right side of the CL900.



Pen tether attach point	Loop a pen tether through this attach point to keep your pen with the tablet. A tether is packaged with each pen. See “Attaching the pen tether” on page 20.
Pen release button	Press to open the pen holder.
Pen storage drawer	Store the pen when not in use.

## Back view

The documentation camera is located on the back of the CL900.



Documentation  
camera

Take photos or video with this 3.0 MP, auto-focus camera. It produces pictures in JPG format with a resolution up to 2048 x 1536 pixels. See “Using the cameras” on page 22.

## Where to begin with your CL900

The CL900 is self-contained, so you can start using it immediately. Here are some steps you can follow to power up and get familiar with your CL900.

**NOTE:** We often use the term “tap” to refer to selecting on the tablet PC.

### Step 1: Plug in the power adapter

1. Plug the power cord into the power adapter of the CL900 tablet, then plug the power cord into an outlet. Keep the tablet on AC power until the battery is fully charged.
2. Press the power button on the left side to turn on the CL900.
3. The first time you log in, Windows Setup may appear. Follow the instructions to set up your user account.

**NOTE:** Press the Security button on the left side to lock or unlock your tablet—it’s equivalent to Ctrl+Alt+Delete.

## Step 2: Connect to a wireless network

The CL900 comes with built-in 802.11 Wi-Fi and Bluetooth. Your tablet may also be equipped with mobile broadband (WWAN), which includes a GPS receiver that you can use with most third-party GPS navigation and mapping applications.

**NOTE:** To connect your CL900 to a wired Ethernet LAN, use the Ethernet port available on the CL900 docking station (sold separately).

Here are the tasks to follow to set up available wireless networks

- [Enable wireless](#)
- [Set up 802.11 Wi-Fi \(WLAN\)](#)
- [Set up mobile broadband with GPS \(WWAN\)](#)
- [Set up Bluetooth](#)

**NOTE:** To set up your wireless networks, you use the Motion Dashboard. The Motion Dashboard is an application installed on your CL900 to help you manage your tablet PC. For more information about the Motion Dashboard, see “Using the Motion Dashboard” on page 14.

### Enable wireless

The first task when setting up wireless is to enable the appropriate network adapter using the Motion Dashboard.


#### To enable wireless adapters

1. From Windows Start menu, select **Motion Computing > Motion Dashboard**.
2. Tap **Wireless**.
3. Select the check boxes next to all wireless networks you intend to use:
  - **Enable Bluetooth Internal Wireless**
  - **Enable 802.11 Internal Wireless**
  - **Enable Mobile Broadband with GPS** (if installed)

### Set up 802.11 Wi-Fi (WLAN)

Connect to the Internet and other computers wirelessly over 802.11 Wi-Fi. Many public places, including hotels, schools, hospitals and airports, offer hot spots to provide wireless access. 802.11 Wi-Fi may be available in your home if you have an appropriate wireless router.

#### To set up 802.11 Wi-Fi

1. Make sure 802.11 Internal Wi-Fi wireless is [enabled](#) from the Motion Dashboard.
2. From the notification area, tap the wireless network icon .
3. Select the desired wireless network from the list of available networks.

**NOTE:** If you have a problem setting up 802.11 Wi-Fi, see our [troubleshooting](#) section.

## Set up mobile broadband with GPS (WWAN)

If you purchased your CL900 with the optional Mobile Broadband module (WWAN), you can connect to high-speed 3G cellular networks worldwide. With the Mobile Broadband module and a data plan from one of several cellular network providers, you full mobile Internet access.

### To set up mobile broadband

1. Make sure mobile broadband with GPS is [enabled](#) from the Motion Dashboard.
2. Download and install Motion Connection Manager according to the [mobile broadband instructions](#) from our corporate website.
3. Follow the steps on the web page to set up mobile broadband using Motion Connection Manager. The procedure walks you through setting up a network profile for your mobile broadband account.
4. Connect to your network using the Connection Manager.



**NOTE:** Before you can connect to a mobile broadband network, you must have an active account with a cellular network carrier.

**NOTE:** If you have a problem setting up or using mobile broadband, see our [troubleshooting](#) section.

## Set up Bluetooth

The CL900 has a built-in Bluetooth adapter which provides short-range wireless connectivity with other Bluetooth enabled devices.

### To set up Bluetooth

1. Make sure Bluetooth Internal wireless is [enabled](#) from the Motion Dashboard.
2. To add a Bluetooth device:
  - a. From the notification area, tap the Bluetooth icon  and select **Add a Device**.
  - b. Make sure the device is discoverable according to Bluetooth device manufacturer's instructions. When a Bluetooth device is discoverable, it is visible to other Bluetooth devices within range.
  - c. Select the desired Bluetooth device from the list of available devices.
  - d. Follow the on screen instructions to complete the procedure.
3. To make the CL900 discoverable (visible) to other Bluetooth devices:
  - a. From the notification area, tap the Bluetooth icon  and select **Open settings**.
  - b. On the **Options** tab, select **Allow Bluetooth devices to find this computer**.

**NOTE:** If you have a problem setting up or using Bluetooth, see our [troubleshooting](#) section. In addition, this section includes tips for improving Bluetooth performance.

## Step 3: Get familiar with your CL900 Tablet PC

Once you've set up your CL900, take a few minutes to get familiar with your tablet.

- Use Motion Computing tools to customize your tablet according to your work style. See "Using the Motion Dashboard" on page 14 and "Accessing Motion tools from Windows notification area" on page 15.
- Open the writing pad and provide handwriting samples to improve handwriting recognition. See "Entering text" on page 21.
- Use the cameras. See "Using the cameras" on page 22.
- Set up speech recognition. See "Using speech recognition" on page 29.

## For more information

This *User's Guide* introduces the full set of CL900 features and provides instructions for common tasks you'll perform. The rest of this book is organized as follows:

- **Chapter 2 Using your CL900**—Provides instructions for basic CL900 tasks including how to customize your tablet to fit the way you work using Motion Dashboard, how to use the cameras, how to set up speech recognition and more.
- **Chapter 3 Caring for your CL900**—Provides suggestions for keeping your tablet PC in great shape and your data protected.
- **Chapter Troubleshooting and FAQs**—Provides answers to common issues you may encounter as you begin to use your CL900. Also includes FAQs.

In addition to this guide, you can refer to a two-page *Motion Getting Started* document which summarizes key features of the CL900. This document is available from the Start menu as well as online.

### To locate *Motion Getting Started*, either

- From Windows Start menu, choose **All Programs > Motion Computing > Motion Getting Started**
- View the [list of user guides](#) on our website

You will find other useful information on our website:

- [Tablet PC Tips & Tricks](#)
- [Motion Computing Support](#)
- [Free online training videos](#)
- [Knowledge Base](#)
- [CL900 accessories](#)
- [Motion Computing Store](#)

# Using your CL900

# 2

This chapter provides information about performing common tablet tasks such as finetuning touch and tablet settings, to name a few. It introduces Motion Computing tools, including the Motion Dashboard, to customize the tablet to fit the way you work.

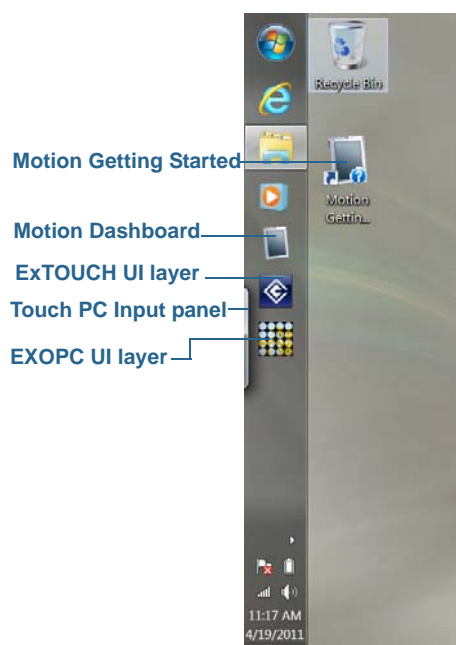
## Introducing the CL900 desktop






When you start up the CL900 for the first time, the desktop looks something like the following picture—except the taskbar appears along the bottom of the screen.



## Motion user interface applications

You can see that the desktop contains icons for additional items which come installed on the CL900. The icons are explained below.



	<b>Motion Getting Started</b>	Two-page document containing tips for starting out with the CL900 Tablet PC.
	<b>Motion Dashboard</b>	Motion application that you use to change tablet settings. See “Using the Motion Dashboard” on page 14.
	<b>ExTOUCH UI layer</b>	Third-party user interface designed for touch devices. You can use ExTOUCH to access the web and documentation cameras. See “Using the cameras” on page 22. For more information about ExTOUCH, select the help icon from the ExTOUCH main window. You may need to flick through the icons to see it.
	<b>Touch PC input panel</b>	Windows application for inserting text using a virtual writing pad and keyboard. See “Opening the tablet PC input panel” on page 21.
	<b>EXOPC UI layer</b>	Third-party user interface designed for touch devices. Tap the EXOPC icon to open a user interface which you may find convenient for touch interaction and for accessing websites and web apps. (You can get new apps from the EXOStore.) For more information, tap the help icon in the EXOPC user interface or go to <a href="http://www.exopc.com">www.exopc.com</a> .



## Setting the taskbar on the left edge of your screen

You'll notice that the [desktop illustration](#) places the Windows taskbar on the left edge of the screen. We find this works well with the CL900 touchscreen display. Consider placing the taskbar on the left.

### To place the taskbar on the left edge of the screen

1. Press and hold the Start menu icon and tap **Properties**.
2. Tap the **Taskbar** tab.
3. Make sure that **Lock the taskbar** is checked.
4. Under **Taskbar location on screen**, select **Left**.
5. Tap **OK**.

## Changing the desktop theme

The desktop that comes on the CL900 uses a Motion theme designed specifically for touch interaction. For example, it has wider scroll bars and more space between menu options to make it easier to navigate with your finger.

Your CL900 comes with two Motion themes: the default MotionTouch120dpi, which uses larger icons and text, and the MotionTouch96 dpi theme, which allows more room for content.

If desired, you can change the theme, but keep in mind that if you do not use a Motion theme, you lose the benefit of having a theme that is designed specifically for touch.

### To change the desktop theme


1. Press and hold anywhere on the desktop.
2. Select **Personalize**.
3. Under installed themes, select the theme that you want to use.


The desktop changes to the selected theme immediately.

# Using the Motion Dashboard

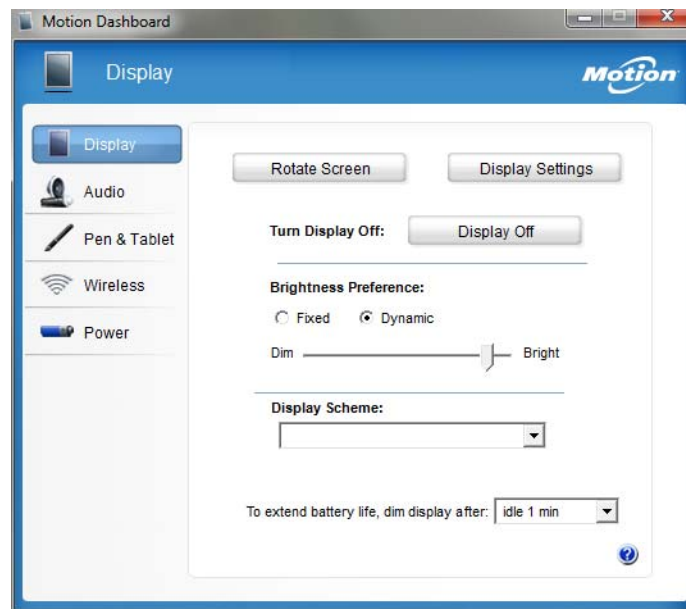
The Motion Dashboard puts many common tablet-related settings and tasks at your fingertips.

## To open Motion Dashboard


- Select the Motion Dashboard icon  from the Windows taskbar.

**TIP:** You can also access Motion Dashboard from the Motion icon  located in the notification area and from the Start menu by selecting **All Programs > Motion Computing > Motion Dashboard**.

Motion Dashboard contains five setting categories. Tap a category on the left to display its settings. In this illustration, Motion Dashboard is open to Display settings.



The following table lists some of the tasks you can perform using the Motion Dashboard.

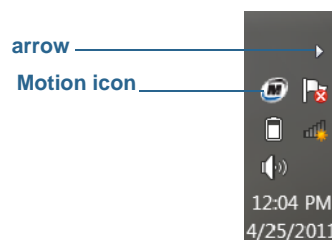
**NOTE:** This is a partial list of tasks that you can perform with Motion Dashboard. Some of these tasks are described in this chapter; all tasks are described in Motion Dashboard by tapping the help icon. 

Dashboard Category	Task
Display	<ul style="list-style-type: none"> <li>• Rotate the display orientation</li> <li>• Adjust the brightness of the display</li> <li>• Set advanced graphic properties</li> <li>• Set up an external display</li> <li>• Dim the display automatically</li> </ul>
Audio	<ul style="list-style-type: none"> <li>• Adjust speaker and microphone volume</li> <li>• Adjust advanced audio settings</li> <li>• Suppress background noise</li> <li>• Balance speakers</li> </ul>
Pen & Tablet	<ul style="list-style-type: none"> <li>• Configure touch to use touch only, pen only or both simultaneously</li> <li>• Adjust touch to left-handedness</li> <li>• Adjust sensitivity to flicks and gestures</li> <li>• Use the pen function button for erasing digital ink instead of performing the right-click action</li> <li>• Personalize your handwriting so that it can be recognized more accurately</li> </ul>
Wireless	<ul style="list-style-type: none"> <li>• Enable and disable Bluetooth, 802.11 Wi-Fi, and mobile broadband</li> <li>• Choose to have wireless disabled on Start Up (it is enabled by default)</li> <li>• Adjust 802.11 Wi-Fi and Bluetooth properties</li> </ul>
Power	<ul style="list-style-type: none"> <li>• Dim the display to save power</li> <li>• Select a power plan</li> <li>• Change what the power button does when pressed: sleep, hibernate or shut down</li> </ul>

## Accessing Motion tools from Windows notification area

For convenience, you can access common Motion tools from the Windows notification area.

**NOTE:** Initially, the Motion icon does not appear here. Tap the arrow to view more icons.



Tap the Motion icon  to display:

- **Battery Health**—Shows the current battery charge level.
- **Motion Dashboard**—Opens the Motion Dashboard.
- **Options**—Lists options you can set:
  - **Show Hard Drive Activity**—When selected, the Motion icon blinks when there is hard drive activity. By default, this option is not set.
  - **Automatic Display Rotation**—When selected, the CL900 automatically changes the viewing orientation (landscape to portrait or vice versa) when the tablet is physically rotated. By default, this option is set.

## Using touch

The CL900 makes use of the latest duo-touch digitizer technology that can track finger, pen and multi-touch input simultaneously. Generally, you use your finger for navigation, such as paging through websites, scrolling and zooming. You can use a pen for more intricate actions, such as marking up a document, using a spreadsheet or manipulating graphics.

**NOTE:** The digitizer is software that detects the current position of your finger or pen and converts your input to digital input. Digital ink refers to the technology that digitally represents handwriting when you write with a pen on a virtual writing pad.

Like other touchscreen displays, you use your finger (or pen) as you would use a mouse. For example, tapping twice is the same as double-clicking a mouse. Tap and holding is the same as right-clicking a mouse to open context-sensitive menus.

Here are some common ways to perform tasks on a touchscreen:

- **Tap**—Select something
- **Tap and hold** (equivalent to a right-click on a mouse)—Open a context-sensitive menu
- **Double-tap**—Perform a double-click action
- **Tap and drag**—Drag and drop
- **Pinch fingers together**—Zoom in
- **Spread fingers apart**—Zoom out
- **Flick**—Scroll through a list or move quickly
- **Press and hold the pen's function button** (equivalent to a right-click on a mouse)—Open a context-sensitive menu

**NOTE:** If the tablet does not respond when you tap with your finger, try using more area of your fingertip. Unlike other types of touch screens, it does not respond to other input. For example, you can't tap it with another object such as a credit card.

## Configuring touch input mode

You can determine how touch input is configured by setting the input mode. You can:

- Use touch exclusively.
- Use the pen exclusively.
- Use touch and pen at the same time.
- Switch between touch and pen input, in which case you double-tap to switch to touch input. This is useful to avoid the tablet from responding to unintentional touch input.

### To configure touch settings

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Touch Settings**.
4. From the **Digitizer Options** tab, under **Input Mode** select the desired mode.

**NOTE:** When you tap **Pen & Tablet Touch Settings**, it opens a panel titled N-trig DuoSense Digitizer Settings. N-trig is the company who makes the pen that you use with CL900.

## Using the touch tuning option

If you find that the touchscreen doesn't respond as you expect, or if the tablet starts to respond to unintentional touch input, you can finetune touch by resetting the touch system to its optimal state by selecting the touch tuning option from **Pen & Tablet**.

### To use the touch tuning option

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Touch Settings**.
4. From the **Digitizer Options** tab, under **Touch Tuning** select **Start** and wait for the program to complete.

**NOTE:** Do not touch the screen during the tuning process.

## Adjusting touch settings

You can adjust how your finger movements are interpreted in many ways. For example, you can:

- Adjust the speed and spatial tolerance of double-tapping with your finger
- Adjust the speed and duration of the tap and hold action with your finger
- Show the touch pointer when interacting with items on the screen
- Adjust the appearance and position of the touch pointer
- Enable or disable multi-touch gestures and inkings

### To change touch settings

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Pen & Input Devices**.
4. Tap the **Touch** tab.
5. To enable Touch, select **Use your finger as an input device**
6. To enable multi-touch gestures, select **Enable multi-touch gestures and inking**
7. To adjust the speed and spacial tolerance of the Double-tap action, under **Touch action**, tap **Double-tap** then select **Settings**. Move the slider to make your adjustments.
8. To adjust the speed and duration of the Press and hold action, under **Touch action**, tap **Press and hold** then select **Settings**. Move the slider to make your adjustments.
9. To display the touch pointer on the screen, select **Show the touch pointer**.
10. To adjust the appearance and behavior of the touch pointer, tap **Advanced Options**.

## Adjusting pen settings

You can adjust how the tablet responds to your pen. For example, you can:

- Adjust the speed and spatial tolerance of the Double-tap action with the pen
- Adjust the speed and duration of the Press and hold action with the pen
- Start the [tablet PC input panel](#) with a gesture and adjust its setting
- Enable the pen function button to perform the right-quick action or act as an eraser

### To change pen settings

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Pen & Input Devices**.
4. Tap the **Pen Options** tab.
5. To adjust the speed and spacial tolerance of the Double-tap action, under **Pen action**, tap **Double-tap** then select **Settings**. Move the slider to make your adjustments.

6. To adjust the speed and duration of the Press and hold action, under **Pen action**, tap **Press and hold** then select **Settings**. Move the slider to make your adjustments.
7. To enable the function button on the pen, select **Use the pen button as a right-click equivalent**.

**NOTE:** **Pen & Input Devices** contains the **Use the top of the pen to erase ink** option, which is not available on the pen. Instead, you can set the pen's function button to act as an eraser.

#### To use the pen function button as an eraser

1. Tap **Pen & Tablet**.
2. Tap **Touch Settings**.
3. Tap the **Pen** tab.
4. Under **Pen button**, select **Eraser**.

## Adjusting tablet PC settings

From **Tablet PC Settings**, you can change from right-handed to left-handed use.

#### To change handedness

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Tablet PC Settings**.
4. Select the **Other** tab and make your desired change.

The **Tablet PC Settings Display** tab has a **Calibrate** option. This does not apply to the CL900. Instead, if touch input does not behave as expected, you can tune touch as described in "Using the touch tuning option" on page 17.

The **Configure your pen and touch displays** option on the **Tablet PC Settings Display** tab is useful for assigning touch to the appropriate display when one or more displays are connected to the tablet. By default, Windows 7 assumes that an external display is for touch input. To change this, run **Setup** from **Tablet PC Settings** to assign touch to your tablet display. If you have multiple external monitors, run **Setup** to assign touch to the correct display.

**NOTE:** A keyboard must be connected to the tablet to perform this procedure.

#### To assign touch to the desired display

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Tablet PC Settings**.
4. Select the **Display** tab.
5. Tap **Setup** next to "Configure your pen and touch displays."

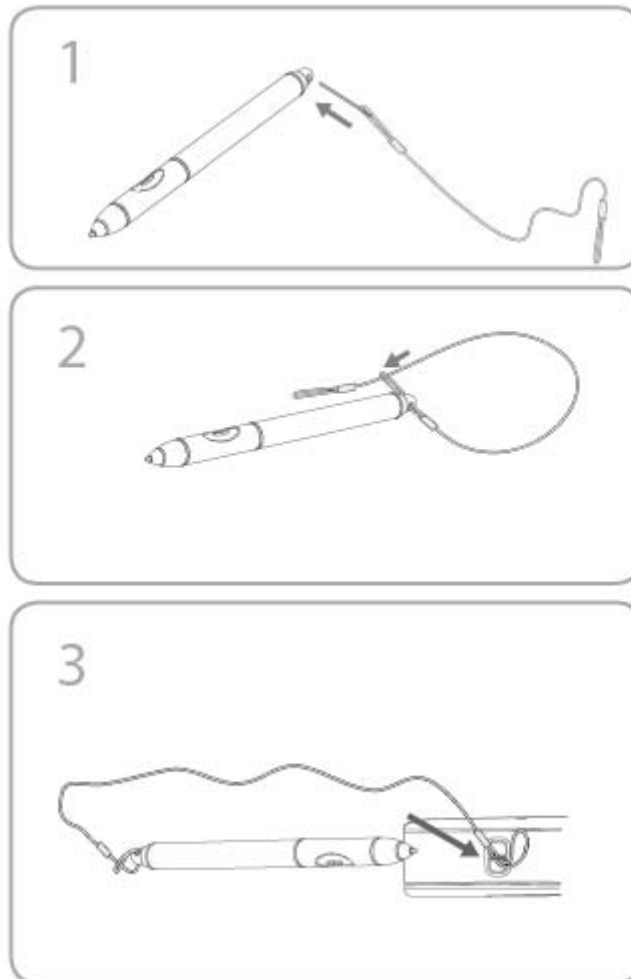
6. Tap **Touch Input**.
7. Press the **Enter** key until you see the instructions appear on the display that you want to use for touch input.
8. Follow the on-screen instructions.
9. Press **Esc** to end the process.

## Attaching the pen tether

The pen comes with a tether so that you can attach the pen to your tablet or docking station to avoid misplacing it. The tether is essentially a string with loops at each end.

When attaching the pen tether, loop one end of the tether through the pen then loop the other end to the tether attach point on the tablet or docking station as shown below.

**TIP:** You may find it helpful to use the end of a paperclip or something similar to assist threading the loop through the tight space.





## Entering text

Windows 7 provides a virtual writing pad and on-screen keyboard that you can use to enter text on your tablet PC. Windows calls this the tablet PC input panel. Use the writing pad to convert your handwriting to text (digital ink) or tap characters using the on-screen keyboard.


Here's the input panel open to the writing pad.



## Opening the tablet PC input panel

The tablet PC input panel often opens automatically when you tap in a text field. You can also tap the tab located on the left side of the screen to expand the input panel.

### To open the input panel either

- Tap at the place you want to enter text, such as in a text box. Then tap the input panel icon. 
- Tap the input panel tab on the left edge of the screen.

**TIP:** To switch between the writing pad and the on-screen keyboard, tap the appropriate icon.

**TIP:** You can dock the input panel to the top or bottom of your screen. From the top of the input panel, select **Tools** then **Docking** and select the preferred location.

**NOTE:** You may not see the input panel icon on the left of the screen if you are viewing your desktop through desktop virtualization software such as a Citrix application.

For more information about the input panel, tap **Tools**, then **Help Topics**.

## Using the handwriting recognition program

The digitizer software quickly recognizes your handwriting because the automatic learning tool collects data about the words you use and how you write them and stores the data under your user profile.

You can also teach the digitizer your writing style. By entering several writing samples, you "train" the digitizer to recognize your handwriting.

**NOTE:** Optional handwriting recognition software is available from the [Motion Computing Store](#).

**To start the handwriting recognition program**

1. Open [Motion Dashboard](#).
2. Tap **Pen & Tablet**.
3. Tap **Pen & Input Devices**.
4. Tap **Handwriting** and follow the instructions.

**TIP:** You can reset the digitizer software by turning off automatic learning, which is useful if you have inherited the tablet PC from another user. When you turn off automatic learning, any data collected and stored by automatic learning is deleted. From **Pen & Input Devices**, select the **Handwriting** tab, then the option **Don't use automatic learning**. To teach the digitizer your writing style, select **Use automatic learning**.

## Using the cameras

Your CL900 comes equipped with two built-in cameras:

- Front-facing web camera—a 1.3 MP camera that supports streaming video.
- Rear-facing documentation camera—a 3.0 MP JPEG format camera with a maximum resolution of 2048x1536 pixels.

You can use both cameras simultaneously for effective remote communication. For example, callers can see each other using the web camera. One person can use the documentation camera to stream live video for the other person to view.

Several vendors offer web cam and image capture software which you can use with the CL900 cameras. For example, popular video-conferencing apps include Skype, Instant Messenger and Windows Live. Popular image capture software includes apps from Adobe, ArcSoft, Corel, DigitByte and MSLSoft, among others.

The CL900 comes with Photo Paint, which is an [ExTOUCH user interface](#) app that supports both web and documentation cameras. The following section describes how to use the camera with Photo Paint.

## Using the Photo Paint app

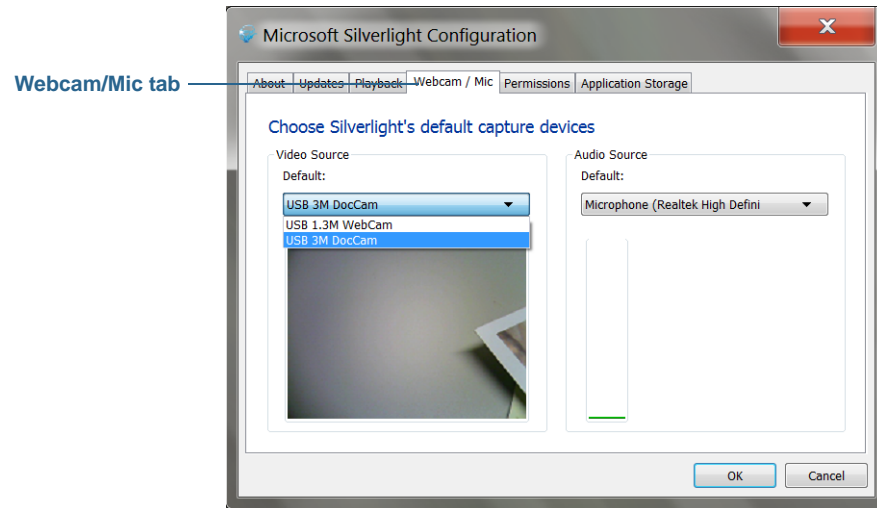
The Photo Paint app is available from the [ExTOUCH user interface](#). The app requires you to first set up the cameras through the Microsoft Silverlight plug-in. Then you start the Photo Paint app from the ExTOUCH user interface to capture the images or video.

## Setting up the cameras

Before using the camera app, open Microsoft Silverlight and select which camera to use.

### To set up the web or documentation camera

1. From the Start menu, select **All programs > Microsoft Silverlight > Microsoft Silverlight** to open the Silverlight configuration window:




2. Select the **Webcam/Mic** tab.
3. Under **Video Source**, select the camera that you want to use from the drop-down list and tap **OK**.

## Starting the Photo Paint app

Start the Photo Paint app from the ExTOUCH main window.

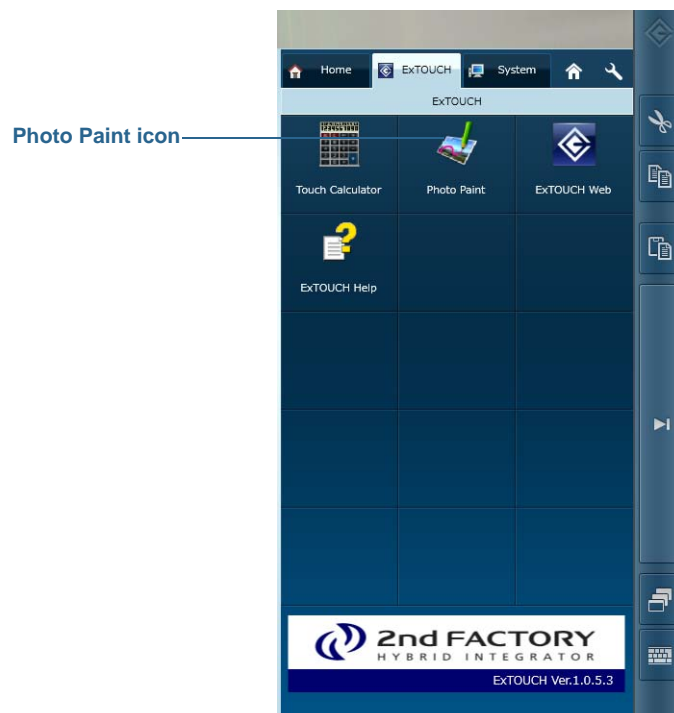
### To start the Photo Paint app


1. Tap the ExTOUCH icon  to open the ExTOUCH user interface.

The ExTOUCH launcher appears on the edge of the screen as shown:



2. Tap the ExTOUCH launcher icon  to open the ExTOUCH main window:



3. Tap the Photo Paint icon  to start the camera application. You may need to scroll through the ExTOUCH window to find the icon.

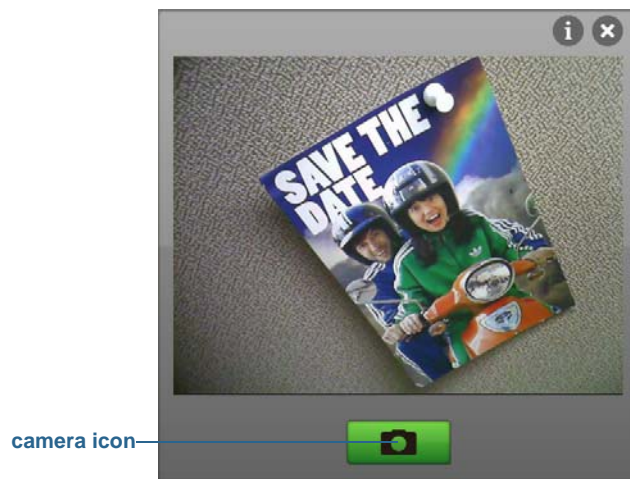
4. To exit the camera window, tap the **X** at the top of the window.

## Taking photographs with the documentation camera

After setting up the documentation camera and starting the Photo Paint app from ExTOUCH, you can begin to take photographs with your CL900.

### To take a photograph:

1. If it is not currently the default camera, open Microsoft Silverlight and select **USB 3M DocCam**.
2. Open the ExTOUCH tool bar, launch the ExTOUCH main window, then start the Photo Paint app. See "Setting up the cameras" on page 23 for details.
3. Frame the subject of your photograph within the camera window and tap the camera icon as shown:



4. If desired, edit the photo.
5. Tap the Save icon as shown:



6. To exit the camera, tap the **X** at the top of the window.

**TIP:** For successful photos:

- Hold the tablet steady and allow it to focus.
- If your pen is tethered, ensure that the tether is not in front of the camera lens.
- Ensure that you have adequate lighting.
- Use the Edit mode to improve your photograph.

## Using the web camera

### To start the web camera

1. If it is not currently the default camera, open Microsoft Silverlight and select **USB 1.3 WebCam**.
2. Open the ExTOUCH tool bar, launch the ExTOUCH main window, then start the Photo Paint app. See “Setting up the cameras” on page 23 for details.
3. Move the tablet to display the desired subject in the web camera window.
4. To exit the web camera, tap the **X** at the top of the window.

## Setting display options

Use the procedures in this section to customize your display settings. You can adjust the brightness level, rotate the display and change the order in which the display rotates.

## Adjusting the display brightness

You can change the brightness of the display which is useful for conserving battery power.

### To adjust the display brightness

1. Open [Motion Dashboard](#).
2. Tap **Display**.
3. Move the Brightness slider to the desired level.

**TIP:** For optimal battery conservation and viewability, set the brightness scale to the mid-point or slightly above.

4. Select one of the following:
  - **Fixed**—Sets the display brightness to a constant level. Move the slider to adjust the display to the desired brightness level. When set to Fixed, the ambient light sensor is ignored.
  - **Dynamic**—Uses the ambient light sensor to maintain an appropriate brightness level for the current lighting conditions. The Dynamic setting helps to conserve battery power.

## Rotating the display orientation

You can easily change the screen orientation to fit your current task. For example, you may want to use the portrait orientation for filling out forms or reading an e-book. At other times, you may want a landscape orientation for web browsing or sketching.

**TIP:** By default, the display rotates automatically when you physically rotate the tablet. To disable this feature, see “Enabling or disabling automatic rotation” on page 27.

### To rotate the display

1. Open [Motion Dashboard](#).
2. Tap **Display**.
3. Tap the **Rotate Screen** button.

## Enabling or disabling automatic rotation

You can set the display to automatically rotate when you physically rotate the tablet. By default, automatic rotation is disabled.

### To enable or disable rotating the display automatically

1. From Windows notification area, tap **Options**.
2. Select or clear the **Automatic Display Rotation** check mark.

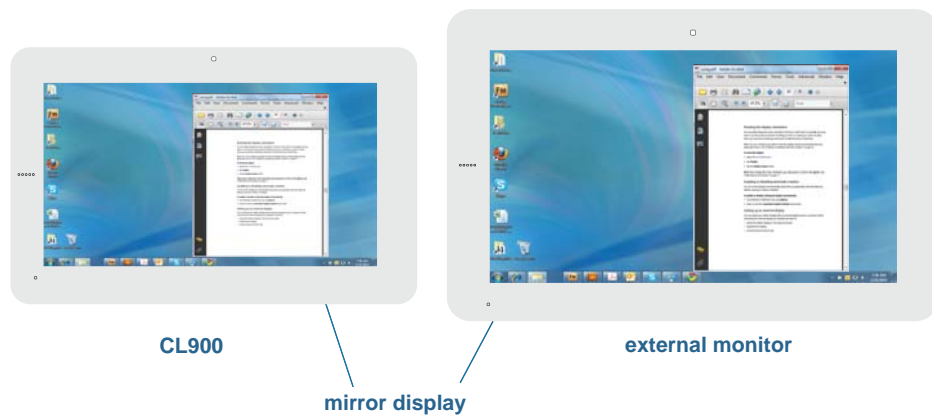
## Setting up an external display

You can use your tablet with an external monitor or projector. When connecting the external display, specify whether to:

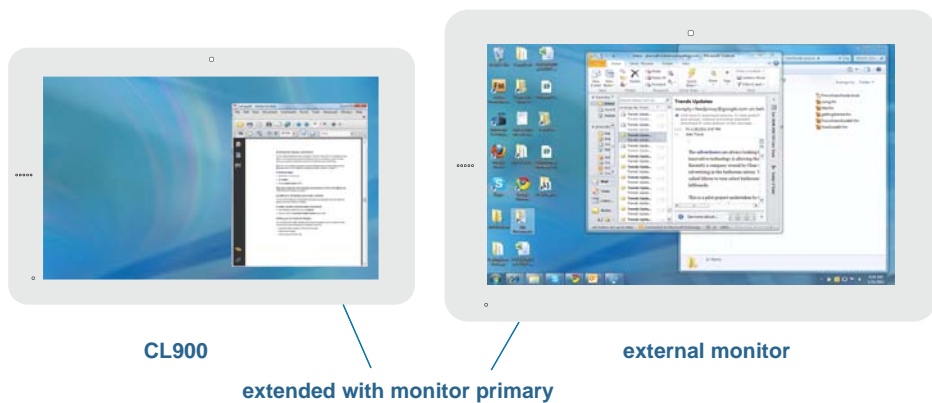
- Extend the tablet’s display on the external monitor
- Duplicate the displays
- Use the external monitor only

You set up an external monitor by connecting it to the CL900, opening Motion Dashboard to **Display** settings and from the **Display Scheme** drop-down list, select one of the following schemes:

- **Mirror Display**—Duplicates the tablet PC display on the external monitor or projector. The same desktop is visible on both displays. The external monitor uses the same display resolution as the tablet PC.



- **Extended with Monitor Primary**—Enlarges the desktop area to include the external monitor as the primary monitor. You can set the external monitor to use a different display resolution than the tablet PC.



- **Extended with Tablet Primary**—Enlarges the desktop area to include the external monitor as the secondary monitor. You can set the external monitor to use a different display resolution than the tablet PC.
- **Monitor Only**—Uses the external monitor only.
- **Tablet Only**—Uses the tablet PC display only.

To connect an external monitor to the CL900, you can use the micro HDMI slot (located on the left side of the tablet) with an appropriate connector, such as a DVI-HDMI adapter.

#### To set up an external monitor

1. Connect the monitor cable from the external monitor into the micro HDMI port on the CL900.
2. Plug in the external monitor and turn it on.
3. If necessary, install software and drivers for the monitor. See the manufacturer's documentation for more information.



4. Open [Motion Dashboard](#).
5. Tap **Display**.
6. Select a **Display Scheme**.

**NOTE:** After setting up an external monitor, touch events may not appear on the appropriate monitor. For example, if you have multiple monitors, Windows may not assign touch to the correct display. To fix this, see “Adjusting tablet PC settings” on page 19.

To learn more about custom monitor schemes, go to Motion Computing [tips](#).

## Using speech recognition

You can use speech recognition to interact with your tablet PC by voice. You can dictate documents and emails or use voice commands to control programs.

- **Dictation mode**—With Dictation mode, your computer listens to everything you say and converts your words to text. You can use dictation mode to enter text directly into any document or text box.
- **Voice command mode**—With Voice command mode, your computer listens for specific words that correspond to a list of available voice commands. You can use commands to switch between programs, save documents, copy, paste or undo.

## Setting up speech recognition

Before you can use speech recognition, you must configure the microphones and train the system for the characteristics of your voice. Then, you can take the available speech tutorial to learn basic voice commands.

### Set up the microphones

For best results, move to a quiet environment.

#### To set up the microphones

1. In Control Panel, tap the **Ease of Access** category, then tap **Speech Recognition**.
2. Tap **Set up microphone**.
3. If you are using the integrated tablet PC microphone array, select **Other**.
4. Follow the instructions in the setup program.
5. If the microphones are set to an appropriate level, the meter will stay in the green zone while you read the sentences. If the level is too low or too high, use Motion Dashboard to adjust the level (page 14).

## Train your computer to recognize your speech

Use this procedure to improve your computer's ability to understand your voice.

### To train your computer to recognize your speech

1. In Control Panel, tap the **Ease of Access** category, then tap **Speech Recognition**.
2. Tap **Train your computer to better understand you**.
3. Follow the instructions in the setup program.

## Taking the speech tutorial

You can use the speech tutorial to learn basic commands and dictation. The tutorial takes about 30 minutes to complete.

### To take the speech tutorial

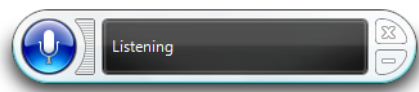
1. In Control Panel, tap the **Ease of Access** category, then tap **Speech Recognition**.
2. Tap **Take Speech Tutorial**.
3. Follow the instructions in the tutorial program.

## Using dictation and voice commands

After you have set up speech recognition, you can open it from Control Panel.

### To use Dictation and Voice Commands

1. In Control Panel, tap the **Ease of Access** category.
2. Under **Speech Recognition**, tap **Start Speech Recognition**.
3. Ensure that the Speech Recognition window is open and listening.



4. Do one of the following:
  - For voice commands, say the appropriate command. For a list of commands, search Windows Help and Support for "speech commands."
  - For dictation, open the program you want to use and start speaking.

For more information about speech recognition, search Windows Help and Support for "speech recognition."

## Using the battery

The CL900 has an internal battery which is charged automatically when the tablet is connected to an outlet. Under normal conditions, you can run the tablet on battery power for up to eight hours.

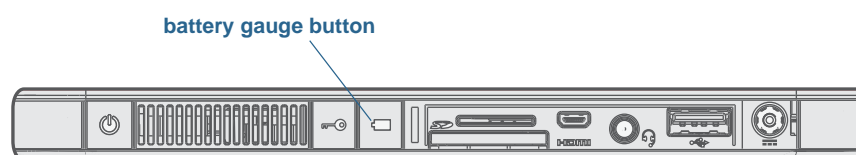
**NOTE:** The CL900 is equipped with a built-in lithium-ion battery which has a long battery life. If you ever need to replace the battery, contact your Motion Computing authorized service provider. Only authorized service providers can replace the battery.

## Checking battery power

You can check the remaining battery power several ways:

- When the tablet is plugged in to an outlet, the battery gauge button shows whether the battery is fully charged (green) or charging (amber).
- When the tablet is running on battery, pressing the battery gauge button on the left side displays status lights on the front of the CL900 indicating the current level of charge.
- From the Motion Dashboard.
- From the Windows notification area.

The illustration below shows the battery gauge button located the left side of the CL900 tablet PC.



The illustration below shows the meaning of the battery lights.


### To check the remaining battery power while running on the battery


1. Press the battery gauge button on the left side of the tablet. Battery gauge lights illuminate on the front of the tablet when the tablet is running on battery.
2. Count the number of battery gauge lights. Each light represents about 20 percent increments of a full charge as shown:

● ● ● ● ●	100% - 80%	<b>Five lights</b> —Battery is fully charged.
● ● ● ● ○	80% - 61%	<b>Four lights</b> —Battery has about 80 percent charge remaining.
● ● ● ○ ○	60% - 41%	<b>Three lights</b> —Battery has about 60 percent charge remaining.
● ● ○ ○ ○	40% - 21 %	<b>Two lights</b> —Battery has about 40 percent charge remaining.
● ○ ○ ○ ○	< 20%	<b>One light</b> —Battery has about 20 percent charge remaining.
● ● ● ● ●	!	<b>Five amber lights</b> —Battery is low and requires an immediate charge.


### To check the battery power while running on AC power


1. Locate the battery gauge button on the left-side of the tablet. The light illuminates when the tablet is connected to a power source.
2. Check the color of the battery gauge button for the current status:

 **Steady green**—Battery is fully charged and the tablet is running on AC power.

 **Steady amber**—Battery is charging.

 **Off**—Not charging. The tablet is running on battery power.

 **Flashing amber (slow)**—Less than 10% battery charge remaining.

 **Flashing amber (fast)**—There is an error. Call Motion Computing Customer Support.

### To check the remaining battery power from Dashboard

1. Open [Motion Dashboard](#).
2. Tap **Power** which displays the percentage of remaining battery charge.

### To check the remaining battery power from the notification area either

- Tap the Motion icon and tap **Battery Health**, which displays the percentage of the remaining battery power.
- Tap the Power icon, which displays a graphical representation of the remaining battery power.

## Battery and power management tips

- To lengthen the battery's usable life, use AC power when you can. The battery charges automatically when the tablet runs on AC power.
- For optimal battery life, use AC power when using a USB device such as a DVD player or external hard disk drive.
- When running on battery power, place the system in hibernate or sleep mode if you are going to leave it unattended for more than a few minutes.
- Remember that the display, processor, wireless cards and accessories all draw on the battery, so adjust properties and disable unused accessories while running on battery power.
- Condition your battery once a month. To condition it, run the tablet on battery power until the battery's charge level drops below 20 percent.
- When running on battery power, adjust the display to a dimmer setting and enable Dynamic. See "Adjusting the display brightness" on page 26.
- Turn off wireless devices when they are not being used.

## Using power management

Windows 7 includes a comprehensive suite of power management functions that can help you maximize your tablet's performance or conserve power. If desired, you can change the default settings.

In addition to the power optimizations described below, see the battery and power management tips listed in the previous section.

### Selecting a power plan

By default, the CL900 uses the Motion Optimized power plan which is designed specifically for Motion Computing tablets. It balances the need to save power while maximizing system performance. If necessary, you can change the Motion Optimized power plan using the Motion Dashboard.

#### To change the power plan

1. Open [Motion Dashboard](#).
2. Tap **Power**.
3. Tap **Power Options**.
4. Select a power plan from the list of available plans.

**NOTE:** From **Power Options**, you can finetune or create new power plans. For details, tap the link "Tell me more about power plans."

### Changing how the power button functions

To save power, you can determine what happens when you press the power button. You can choose among these options:

- **Sleep**—The tablet stops what it's doing immediately and quickly resumes activity when awakened. This is useful for saving power when you are away from the computer for a short time. However, you will lose unsaved data if there's a power failure while on sleep.
- **Hibernate**—The tablet shuts down, but first saves your open files and programs on your hard disk. When awakened, your desktop is restored exactly as you left it. This is useful for saving power when away from the tablet for an extended period of time. However, remote files and programs are not saved.
- **Shut down**—Tablet shuts down.

You can choose separate settings for when the tablet is running on battery and when it's plugged in. To wake up your tablet, simply press the power button again.

#### To change what happens when the power button is pressed

1. Open [Motion Dashboard](#).
2. Tap **Power**.

3. Under **Power Switch on battery**, select what you want to happen when the power switch is pressed while the tablet is running on battery.
4. Under **Power Switch plugged in**, select what you want to happen when the power switch is pressed while the tablet is plugged into an outlet.
5. To wake up your tablet, press and release the power button.

## Setting up users and passwords

Use different types of user accounts and passwords to create various levels of protection for your computer and its data, depending on the level of security that you need.

### Setting up user accounts

Use Windows 7 user accounts to help secure the files on the tablet from other users. You must have an administrator account on the tablet to add a new user to the tablet.

Create user accounts from the Microsoft Management Console. Refer to the “Create a user account” instructions in Windows Help and Support to create the account.

### Setting or clearing a BIOS password

You can use a BIOS password to secure the basic input/output system of your tablet. Setting a BIOS password requires the user to enter a password to open the BIOS Setup Utility. You can also set up a password on boot, which requires the user to enter a password to start the computer.



**WARNING:** Read this section carefully before creating a BIOS system password. If you forget the password, you will not be able to access your tablet PC. If this happens, contact your system administrator or your service provider.

#### To set or clear a BIOS password

1. Start the tablet.
2. When the Motion Computing splash screen appears, quickly tap the screen.

An alert sounds when you’ve accessed the BIOS Setup Utility. If you miss the splash screen, restart the computer and try again.

**TIP:** If a keyboard is attached, you can press the **F2** to open the Setup Utility then press the arrow keys to select items and press **Enter** to select a submenu.

3. Tap **Security** on the top menu bar.
4. Select **Set Supervisor Password**.
5. If a password is currently required, type the password using on-screen keyboard and tap **Enter**.
6. Type the new password and tap **Enter**. To confirm, re-enter the password and tap **Enter**.

**NOTE:** To clear a BIOS password, press **Enter** twice, which leaves the **Enter New Password** fields blank, then tap **Enter**.

7. If you want to require the user to enter the password when the system starts, select **Enable Password on boot**.

8. Tap **Password on Boot** then **Enabled**.

**NOTE:** To no longer require the password on boot, select **Disabled**.

9. Tap **Enter**.

10. At the confirmation message, “Changes have been made,” tap **Continue** or press **Enter**.

11. Tap **Exit** then **Exit Saving Changes** or press **F10** to save the changes and start Windows.

## Setting or clearing a hard disk password

You can use a hard disk password to protect the tablet and its hard disk drive.



**WARNING:** If you set up a hard disk drive password, the computer cannot be started without it and the data on the hard disk drive cannot be accessed—even if it is removed and attached to a different computer.

### To set up or clear a hard disk drive password

1. Start the tablet.

2. When the Motion Computing splash screen appears, touch the screen.

An alert sounds when you’ve accessed the BIOS Setup Utility. If you miss the splash screen, restart the computer and try again.

**TIP:** If a keyboard is attached, you can press the **F2** to open the Setup Utility, then press the arrow keys to select items, then press **Enter** to select a submenu.

3. Tap **Security** on the top menu bar.

4. Tap **Set Hard Disk Password**.

5. If a password is currently required, type the password using the on-screen keyboard and tap **Enter**.

6. Type the new password and tap **Enter**. To confirm, re-enter the password, then tap **Enter**.

**NOTE:** To clear a hard disk password, press **Enter** twice which leaves the **Enter New Password** fields blank, then tap **Enter**.

7. At the confirmation message “Changes have been made,” tap **Continue** or press **Enter**.

8. Tap **Exit**, then **Exit Saving Changes** or press **F10** to save the changes and start Windows.

## Locating your serial number

You can locate your serial number from the Windows Start menu.

### To locate your serial number

1. From the Start menu, right-tap **Computer**, then select **Properties** from the context menu.
2. In the **System** section of the page, view **Model**. The serial number begins with “S/N=.”

**NOTE:** You can also locate the number from the BIOS Setup Utility.

## Finding other software

For information about other software for your tablet, go to [Motion Computing Accessories](#) and the [Motion Computing Store](#). You will find links to software solutions for purchase as well as free downloads from Motion Computing and its service partners.



# Caring for your CL900

# 3

Proper care and maintenance will keep your tablet working and in good condition for a long time. For general information about care of the tablet PC and its components and accessories, see the *Safety and Regulatory Guide* included with your tablet PC.



**WARNING:** Follow the guidelines listed below when caring for your tablet PC and its components. Improper use may damage the tablet PC and its components and void the warranty.

## General care

- Protect the tablet PC from exposure to extreme temperatures, shock, liquids and strong magnetic fields.
- Do not place heavy objects on top of the tablet PC.

## Caring for the display

Follow these suggestions to keep your display clean:

- Clean fingerprints and most marks from the display surface by wiping it with the soft cloth (provided).
- If needed, use a cleaning solution recommended by Motion Computing to clean the display. Spray the solution on a cloth then wipe the display. Never spray directly onto the display surface and never use an abrasive cleaner.

**NOTE:** Motion Computing maintains a [list of tested cleaning solutions](#) and chemical disinfectants on its website. You can also purchase protective display films from the [Motion Computing Accessories](#) page.

- Avoid using tissues or paper towels to clean the display surface. They contain wood fibers that can scratch the display.
- If liquid is spilled on the display, wipe it up immediately.
- Do not write on the display with an ink pen or pencil or any other object that could damage the display surface.
- Protect the display surface from unnecessary contact by using a case when transporting the tablet PC.
- Avoid exposing the display to direct sunlight for long periods of time.



**WARNING:** Do not use any corrosive or abrasive cleaners to clean or disinfect the tablet. See the Motion Computing website for a [list of tested cleaning solutions](#).

## Caring for the pen

If you use a pen with your tablet:

- Store the pen in the pen storage drawer or in a case when not in use.
- Do not store the pen vertically on the tip. Constant pressure on the tip can affect the pen-to-digitizer interaction.
- Do not immerse the pen in liquid. It contains electronic components that could be damaged.
- In certain environments, particles or debris can stick to the pen tip or the tablet PC display. Make sure you wipe off the pen to avoid scratching the display.
- To order new pens or pen tips, go to [Motion Computing Accessories](#) page on our website.

## Caring for the battery

To maximize the performance of the batteries, condition the battery once a month. To condition it, run the tablet on battery power until the battery's charge level drops below 20 percent. Then use AC power until it is fully charged.

For more information about batteries, see "Using the battery" on page 31.

## Traveling with your tablet PC

Use the following tips when you travel with your tablet PC:

- Put the tablet PC in a case to protect the display.
- Protect the pen by keeping it in the pen storage drawer or in a case during travel.
- Pack the tablet PC securely in a briefcase or hand-carried luggage and keep it separate from toiletries, liquids and food. Do not pack it in checked luggage.
- Before extended use in the field or long trips away from AC power, adjust the power properties to maximize battery conservation. See "Selecting a power plan" on page 33.
- For international travel, use the appropriate adapters for your destination's electrical outlets. You do not need to buy a voltage converter; the Motion AC adapter will automatically adjust to different voltages.
- You may want to carry proof of ownership or a merchandise passport when traveling internationally.
- Consult your insurance and credit card companies to learn about emergency travel assistance in case your tablet PC becomes lost or disabled.
- Do not carry your tablet through a metal detector.
- Turn off the tablet PC or place it in [hibernation mode](#) for airplane takeoff and landing.

**NOTE:** The FAA requires that you suspend 802.11 Wi-Fi, Bluetooth and Mobile Broadband connections before boarding a plane. You can disable them all at once from the Dashboard **Wireless** page.

## Creating a backup archive

If you want to roll back your computer to a predetermined state, you can create a backup archive.

**NOTE:** You do not need to perform this task if your tablet PC has a 30 GB hard drive. Instead, use the recovery media provided with your tablet PC.

### To create a complete PC backup archive

1. From the Control Panel, select the **System and Security** category then **Backup and Restore**.
2. Select **Create a system image** in the left navigation bar, then follow the instructions.

**NOTE:** You need a flash drive or USB external hard disk on which to store the backup copy.

### To back up individual files

1. From the Control Panel, select **System and Security** category then **Backup and Restore**.
2. Select **Set up back up**.
3. Follow the instructions to back up selected files to protect against loss or accidental deletion.

## Restoring data

If you experience a problem, you can use the Windows Recovery Environment to repair your Windows 7 files, or you can restore your computer to the state it was in when it left the factory. If a serious problem occurs and Windows 7 will not start, the Windows Recovery Environment Repair automatically starts up.

Additionally, you can restore your own backup archive that you created previously as described in “Creating a backup archive” on page 40.

## Using the Windows Recovery Environment

**NOTE:** To use the Windows Recovery Environment, attach a keyboard to the tablet.

### To repair Windows 7 files

1. Start or restart the computer.
2. After the initial BIOS screen, press and hold the **F8** key.
3. On the **Advanced Boot Options** screen, select **Repair your computer** and press **Enter**.
4. Select a keyboard layout and select **Next**.
5. Select a user name and enter the password, then select **OK**.

6. On the **System Recovery Options** menu, click **Startup Repair**.

#### **To restore from your complete PC backup archive**

1. Start the computer.
2. After the initial BIOS screen, press and hold the **F8** key.
3. On the **Advanced Boot Options** screen, select **Repair your computer** and press **Enter**.
4. Select a keyboard layout then select **Next**.
5. Select a user name and enter the password and then select **OK**.
6. Attach the USB hard disk drive or DVD drive that you used to store your complete PC backup archive.
7. On the **System Recovery Options** menu, select **System Image Recovery**.
8. Follow the instructions in the **Re-image your computer** dialog.

#### **To restore the original factory image**

1. Start the computer.
2. After the initial BIOS screen, press and hold the **F8** key.
3. On the **Advanced Boot Options** screen, select **Repair your computer** and press **Enter**.
4. Select a keyboard layout and select **Next**.
5. Select a user name and enter the password then **OK**.
6. On the **System Recovery Options** menu, select **Reinstall Windows**.
7. Select **Yes** to reinstall Windows.

Your current data will be saved in a Windows.old directory.

## Restoring individual files

If you have set up Windows backup, you can use it to restore data that you archived. You can restore individual files, multiple files or all files in a backup archive.

#### **To restore backup files**

1. From the **Control Panel**, tap the **System and Security** category, then **Backup and Restore**.
2. Select **Restore Files**.
3. Follow the instructions to restore individual files and folders that have been accidentally deleted or damaged.



# Troubleshooting and FAQs

# 4

Motion Computing tablet PCs are thoroughly tested for performance and quality, but occasionally problems still occur. If you do not find the information you are looking for in this section, go to [Motion Computing Support](#).

## Troubleshooting

Use the information in this section to identify and resolve common issues. If an issue has more than one potential cause, the most common cause is listed first.

### Power

#### **The computer does not shut down**

- An application might have stopped responding. Use Task Manager to manually stop the application. Press the Windows Security button and select **Start Task Manager**. You can also press and hold the power button for five seconds to force the computer to shut down.

#### **The computer will not enter Hibernation mode**

- Hibernation might not be enabled. Enable hibernation by adjusting the power button behavior from Motion Dashboard. See “Changing how the power button functions” on page 33.

#### **The computer does not return from Hibernation while on battery power**

- The battery might be depleted. Plug the computer in to AC power.

### **The display goes black while the tablet PC is still turned on**

- The computer might have turned off the display to save power. To restore the display, touch the screen with your finger or the pen.
- The computer might have gone into Sleep mode. Press and hold the power button for about one second.
- The computer might have gone into low-battery Hibernation mode. In Hibernation mode, the power status light is off. Plug the computer in to AC power, then press and hold the power button for about one second.

## **Battery**

### **The battery does not last very long (less than eight hours)**

- Hot or cold conditions can adversely affect the battery charge. Use AC power if you are operating the computer in these conditions.
- Accessory devices such as a DVD player and applications that make heavy use of the hard drive can drain the battery more quickly. Remove the accessory devices or use AC power if possible.
- Condition the battery once a month by using the tablet on battery power and allowing the battery charge to drop below 20 percent before connecting the battery to AC power.
- For other battery optimizing tips, see “Battery and power management tips” on page 32.
- Have the battery replaced. While the built-in lithium-ion battery is designed for a long battery life, you may find the need to replace it. If so, contact your Motion Computing service provider. Only authorized service providers can replace the battery.

## **Display**

### **When I connect to an external monitor, the cursor appears on the external monitor and not on my tablet**

- This is a known Windows 7 issue. If you have multiple touch-enabled displays, Windows may not assign touch to the correct display. To fix this issue, follow the procedure in “Adjusting tablet PC settings” on page 19.

### **When I disconnect an external monitor, the desktop area is larger than the tablet PC display**

- The computer may have expanded the desktop beyond the display area of the tablet PC display when it was connected to the external monitor. Use Motion Dashboard to set the tablet PC as the active display to return it to the normal state.
  1. Open [Motion Dashboard](#).
  2. Tap **Display**.
  3. From the **Display Scheme** drop-down list, select **Tablet Only** to make the tablet PC the primary display.



For more information, see “Setting up an external display” on page 27.

### **The display is too dim**

- The display brightness may be set too low. Use Motion Dashboard to brighten the display. See “Adjusting the display brightness” on page 26.

### **The display is unreadable or distorted**

- The screen resolution and color quality may not be set correctly. Use Windows Display Properties to reset the display settings. From Windows Control Panel, select **Hardware and Sound** category. Under **Display**, change the desired settings.
- The display driver may have been removed or become corrupted. Use Windows Device Manager to reinstall the driver.

### **To update the display device driver**

1. Make sure that the tablet is connected to a network.
2. In Control Panel, tap the **System and Security** category.
3. Select **System**.
4. Under System, select **Device Manager**.
5. Expand **Display adapters**.
6. Select the adapter and select **Action > Update Driver Software**.
7. Follow the on-screen instructions.

## **Touch or pen input**

### **The tablet PC does not respond to the pen I am using**

- You may be using an improper input device. Only Motion pens can be used to write on the tablet PC display. The tablet PC does not respond to other pens or to a plastic stylus.

### **When I add an external display, touch input does not appear on the desired display**

- Run set up from the Dashboard **Tablet PC settings** page. See “Adjusting tablet PC settings” on page 19.

### **When I write, I inadvertently click the function button on the pen**

- Try adjusting how you hold the pen. Avoid resting your finger on the function button. You can also disable the function button. See “Adjusting pen settings” on page 18.

### **The pen function button does not work**

- You may not be pressing the button early enough. Try pressing and holding the pen function button before you touch the pen to the display surface.
- You may have disabled the pen function button. See “Adjusting pen settings” on page 18.

### **On-screen instructions require me to press Enter or Esc, but I don’t have a keyboard.**

- Connect a keyboard to the tablet to continue.

### **The CL900 does not respond when I tap or touch with my finger**

- Try using more area of your fingertip to tap and touch.

### **The CL900 tablet responds to touch when I don't want it to**

- Consider changing a touch setting so that you have to double-tap the display to enable touch. From Windows Start menu, select **Motion Computing > Motion Dashboard** and tap **Pen & Tablet**. Tap **Touch Settings** and then **Auto mode**.
- Sometimes, it's helpful to reset the tablet's touch system. From Windows Start menu, select **Motion Computing > Motion Dashboard** and tap **Pen & Tablet**. Tap **Touch Settings**, then **Touch Tuning**, then **Start**. A calibration program begins. Do not touch the display until the program has finished.

## Ports and connectors

### **The system does not recognize the USB 2.0 device**

- Windows may take a short time to recognize the USB device. Wait a few moments to see if Windows recognizes the device.
- The device may not be connected properly. Check the connection and ensure it is inserted properly into the USB port.
- The correct driver might not be included with Windows. Check the manufacturer's website for a current driver, or use the installation CD that came with the device.

### **The CL900 is in its dock, but the system does not recognize any accessory devices, such as the external disk drive or monitor**

- The CL900 may not be fully seated in the dock. Remove it from the dock and then replace it.

## Network

### **The wireless adapter keeps connecting even when I do not want it to**

- Disable the desired wireless adapter from the Motion Dashboard. From the Dashboard **Wireless** page, clear the check box next to the wireless adapter you want to disable. For more information, see "Enable wireless" on page 8.

### **I cannot connect to a network using the Ethernet adapter**

- The Ethernet port for the CL900 is located on the dock. To connect to an Ethernet network, connect an Ethernet cable to the Ethernet port on the dock. If it's not working, try removing and reconnecting the Ethernet cable. Then try replacing the cable.

## 802.11 Wi-Fi

### **I cannot connect to a wireless 802.11 Wi-Fi network**


- 802.11 Wi-Fi requires an access point. Many public places provide access points (hot spots). Wireless is available in your home if you have an appropriate wireless router.
- 802.11 Wi-Fi must be enabled from the Motion Dashboard. For more information, see “Enable wireless” on page 8.
- Your tablet may be too far from the access point.
- You may not have access rights which may require an account fee, user name, password and network set up through an administrator.
- Your tablet’s security settings may prevent a connection, for example, broadcasting a network name may be enabled or encryption is turned on.

## Bluetooth

### **I cannot connect to a Bluetooth network**

- Bluetooth must be enabled from the Motion Dashboard. For more information, see “Enable wireless” on page 8.
- Your Bluetooth device must be paired. See “Set up Bluetooth” on page 9.
- Your Bluetooth device is out-of-range. The Bluetooth devices are designed for short-range communication and can connect at distances up to 33 feet (10 meters).

### **I tried to pair my Bluetooth device several times but it is not detected:**

- Bluetooth must be enabled from the Motion Dashboard. For more information, see “Enable wireless” on page 8.
- Ensure that the Bluetooth device you are adding is discoverable. See the device’s manufacturer’s instructions for more information.
- Ensure that the Bluetooth device battery is charged.
- Check which Bluetooth devices are connected. From the notification area, tap the Bluetooth icon  and select **Show Bluetooth Devices**. The Devices window displays all the Bluetooth devices that are currently connected.
- If the tablet still cannot detect the Bluetooth device, contact the device manufacturer for assistance.

### **My Bluetooth device doesn’t work properly**

- Some issues arise when using Bluetooth devices. See “Bluetooth wireless tips” on page 48.

## Bluetooth wireless tips

Motion Computing and its Bluetooth partners have worked to ensure a positive experience with this technology and to ensure Bluetooth interoperability. In doing so, we have found the following issues:


- **Interference**—If you are running Bluetooth and 802.11 Wi-Fi at the same time, interference can affect the Bluetooth performance. This is most noticeable if:
  - You try to transfer large amounts of data, such as file transfers, or printing large documents.
  - Several Bluetooth devices are operating in an office simultaneously.
- **Speech Recognition**—Bluetooth audio has not been fully developed for speech recognition. Therefore, for speech recognition, we recommend that you not use a Bluetooth wireless headset. A better solution is to use Motion Speak Anywhere, which can record clear audio, dictate notes and use voice commands without a microphone headset.
- **Disconnection**—Some Bluetooth devices will disconnect when they go into power-saving mode. Most devices will automatically reconnect when they become active again.
- **Incompatible drivers**—If you attempt to install other wireless headset or other audio drivers (such as Bluetooth or USB) over the tablet PC audio drivers, a malfunction of the tablet PC audio system may occur because the drivers may not be compatible.
- **Interoperability**—If you are having problems with interoperability of Bluetooth devices, contact the manufacturer of your Bluetooth device and check its compatibility with the Bluetooth software installed on your tablet PC.
- **Security**—Bluetooth devices use a passkey to create a secure connection between the tablet PC and the Bluetooth device. Although the passkey exchange helps to secure your data, Bluetooth wireless technology should not be considered completely secure.

## Mobile broadband with GPS

### I cannot connect to a mobile broadband network

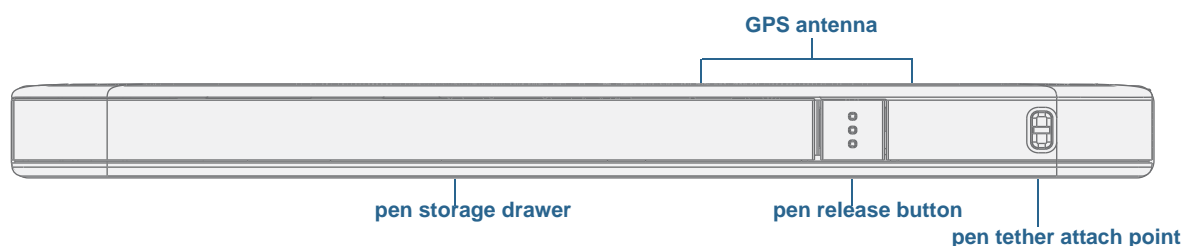
- A mobile broadband (WWAN) network requires you to have a data plan from a cellular network carrier, such as AT&T, Millicom, Orange, SK Telecom, T-Mobile, Verizon or Vivo, among others.
- If your network carrier is on a UMTS network, your network carrier must provide you with a SIM card to enable mobile broadband service. You insert the SIM card in the slot on the left side of the tablet. The SIM card contains your account information.
- Mobile Broadband with GPS must be enabled from the Motion Dashboard. For information, see “Enable wireless” on page 8.
- Mobile broadband must be set up through the Motion Connection Manager. See “Set up mobile broadband with GPS (WWAN)” on page 9.

### The GPS does not work

- The GPS receiver is only available if you purchased your CL900 with the optional Mobile Broadband with GPS module.
- Mobile Broadband with GPS must be enabled from the Motion Dashboard. See “Enable wireless” on page 8.
- Motion Connection Manager must be running. From Windows Start menu, select **Motion Connection Manager > MotionCM**.
- GPS must be started from the Connection Manager. From the notification area, tap the Motion Connection Manager icon  and select **Start GPS**.
- The GPS navigation or mapping application your are using must be able to handle standard NMEA GPS information.

### My GPS isn't working properly

- Mobile Broadband with GPS must be enabled from the Motion Dashboard. See “Enable wireless” on page 8.
- If performance is slow, you may be blocking the GPS antenna, which is located on the right side of the tablet as shown below.



## Audio

### No sound is coming from the built-in speaker

- Ensure that nothing is connected to the audio in/out jack. Connecting headphones or external speakers disables the built-in speaker.
- The volume may be set too low or muted. You can use Motion Dashboard to increase the volume or turn mute off. From Windows Start menu, select **Motion Computing > Motion Dashboard** then tap **Audio** and move the slider to the desired volume.

### No sound is coming from the built-in speaker or external speakers

- The volume may be set too low or muted. You can use Motion Dashboard to increase the volume or turn mute off. From Windows Start menu, select **Motion Computing > Motion Dashboard** then tap **Audio** and move the slider to the desired volume.
- The integrated audio components may have been overwritten. If you install a third-party audio device (such as a USB or Bluetooth device), the integrated audio may stop working. If this happens, reinstall the audio drivers. After you install these, if you still have problems recording, contact your system administrator or service provider.

## System

### **I forgot my BIOS password and cannot access my computer**

- You can enter several incorrect passwords before the BIOS temporarily locks the system. You can try again by restarting the system. If you still cannot log on, contact your system administrator.

### **The computer seems to be operating more slowly than usual**

- Reboot.
- The hard disk drive may be full or nearly full. You can use Disk Cleanup to free up space on your hard drive. For more information, see Windows Help and Support.
- The hard disk may need to be defragmented. You can use Disk Defragmenter to consolidate files and folders on the hard drive. For more information, see Windows Help and Support.

## Frequently asked questions

### **How can I make the battery charge last longer?**

- For maximum conservation, you can use the **Power saver** power plan. See “Selecting a power plan” on page 33.
- Use the Dynamic display setting. This automatically controls the display to conserve power. See “Adjusting the display brightness” on page 26.
- Set the display to the dimmest level you are comfortable with. See “Adjusting the display brightness” on page 26.
- Disconnect any Ethernet connections that are not being used. Disable the wireless adapter and Bluetooth adapter if you are not using them. Disconnect unnecessary USB devices. To disable the adapter, from Windows Start menu, select **Motion Computing > Motion Dashboard**, tap **Wireless** and clear the check box next to the **Enable Bluetooth wireless**.
- Stop unnecessary background applications and processes.

### **How do I know if the tablet is charging when I plug it in to a power adapter?**

- The battery gauge button on the left side of the tablet is amber when the tablet is charging.

### **How do I check the battery charge when I’m running on the battery?**

- When you press the battery gauge button on the left side of the tablet, battery gauge lights appear on the front. If no lights appear, you should attach the tablet to a power source immediately. Five lights indicate a full charge.

### **How do I clean the display screen?**

- To clean the display screen, wipe it with a soft cloth (like the one supplied). Do not spray cleaners, spray/pour any liquid, or wipe any abrasive cleaner on the screen or any surface of the tablet PC. Do not use tissues or paper towels to clean the screen. They contain wood fibers and may scratch the surface.
- Motion Computing maintains a [list of tested cleaning solutions](#) and chemical disinfectants on its website.

### **Will scratches affect the performance of the display or digitizer?**

- Our testing has not found appreciable loss of performance on a scratched display.

### **How sensitive is the screen to various elements?**

- As with any computer or electronic device, you should protect the tablet PC from liquids, dirt and sand, other contaminants and extreme heat.


### **Will any monitor, USB device, keyboard or mouse work with the tablet PC?**

- If the device has a driver for Windows, it will work with the tablet PC. For best result, an external monitor should be digital—and capable of connecting with the CL900 through the micro HDMI port. For a list of products that have been tested for Windows, look for the Windows Marketplace Tested Products page on the [Microsoft website](#).

### **How do I adjust the tablet PC for left-handed use?**

- From the Motion Dashboard, tap **Pen and Tablet**, then **Tablet PC Settings**, then the **Other** tab. You can select left- or right-handed which changes the location of the menus.

### **How can I stop the display screen from rotating automatically?**

- From the navigation area, tap the Motion icon , tap **Options** and clear **Automatic Display Rotation**.

### **How do I calibrate my finger and pen for touch input?**

- You do not need to calibrate the CL900. If the touchscreen does not respond as expected or if it responds to unintentional input, you can finetune it. See “Using the touch tuning option” on page 17.

### **What do I need to use the Tablet PC in another country?**

- You will need a travel plug adapter, which you can find in airports and travel stores. You do not need to buy a voltage converter; the Motion AC adapter will automatically adjust to different voltages.





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